

ABSTRACT OF THE DISCLOSURE

A silver halide emulsion comprising silver halide grains containing at least 90 mol% chloride, 0.02 to 5.0 mol% bromide and 0 to 2.0 mol% iodide, which is prepared by a process comprising (i) forming a silver halide grain emulsion, (ii) subjecting the silver halide emulsion to desalting and (iii) subjecting the desalted silver halide emulsion to chemical sensitization by adding a chemical sensitizer, wherein in the step (iii), at least one compound represented by the following formula (1) to (4) is added before adding a chemical sensitizer and at least one compound represented by the following formula (1) to (4) is further added after adding a chemical sensitizer.

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| formula (1) | $R-SO_2S-M$ |
| formula (2) | $R_1-SO_2S-R_2$ |
| formula (3) | $R_3-SO_2S-L_m-SSO_2-R_4$ |
| formula (4) | $R_{11}-(S)_{m1}-R_{12}$ |